

Author index

- Abelt, C.J. 289
Acquavella, M.F. 289
Adachi, K. 257, 273
Aiba, S.-i. 373
Alais, J. 79
Alton, G.R. C7
Ando, T. C1
André, C. 31
Aoki, N. 151, 165
Atzori, M. 1
Aulabaugh, A.E. 201
- Ballou, C.E. 63
BeMiller, J.N. 197
Biviano, F. 1
Böcker, T. 245
Boniface, C. 15
Brisson, J.-R. 299
- Cabell, M.F. 289
Chang, H.-S. 151, 165
Crouch, R.C. 201
Cuny, E. 319
- David, S. 79
Dohi, Y. 179
Donoso, D.C.W.J. 289
Donoso, M.T.U. 191
Dowd, M.K. 223
- Farrant, R.D. 201
Feist, H. 319
Fernández-Mayoralas, A. 185
Forrest, S.M. 289
French, A.D. 223
Fronczek, F.R. 213
Fuhrhop, J.-H. 31
Furuhata, K.-i. 151, 165
- Hara, K. C11
Hasegawa, A. 257, 273, C1
Helander, A. 299
Hodosi, G. 327
- Horie, R. C11
Hudson, B.D. 201
- Irie, K. 117
Ito, Y. 117
Iwasawa, H. 117
- Jiang, C. C7
- Kameyama, A. C1
Kashem, M.A. C7
Kato, T. 117
Kenne, L. 299
Kiso, M. 257, 273, C1
Kiyohara, H. 361
Kobayashi, Y. 89
Koganei, K. 165
Koyama, Y. 89
Kroon-Batenburg, L.M.J. 41
Kroon, J. 41
Kuszmarn, J. 327
Kvam, B.J. 1
- Larice, J.-L. 15
Leefflang, B.R. 41
Lindhorst, T.K. 245
Lindon, J.C. 201
Ljevaković, Đ. 107
Luger, P. 31
- Martin, G.E. 201
Martín-Lomas, M. 185
Martínez, M.B. 191
Mata, F.Z. 191
Metzger, J. 15
Murello, M.-H. 15
- Nagai, T. 361
Nakano, K. C11
Nieto-Sampedro, M. 185
- Ohgi, T. 89
Okuno, S. 117
Oscarson, S. 299

Paoletti, S. 1
Párkányi, C. 15
Pérez, J.A.G. 191
Peseke, K. 319
Peters, T. 299
Petrůš, L. 197
Podányi, B. 327

Ragouzeos, A. 201
Reilly, P.J. 223
Rendleman, Jr., J.A. 343

Sakamoto, M. 151, 165
Santos-Benito, F.F. 185
Shibukawa, M. 117
Shockcor, J.P. 201
Siouffi, A. 15
Smith, S.H. 289
Spitzer, T.D. 201
Sugawara, T. 117
Svenson, S. 31

Tabata, S. 179
Taneichi, N. 89

Tegge, W. 63
Thiem, J. 245
Toffanin, R. 1
Tomašić, J. 107
Tomić, S. 107
Tsuchiya, T. 89

Van Eijck, B.P. 41
Vargas, D. 213
Venot, A.P. C7
Vernin, G. 15
Vill, V. 245
Vliegenthart, J.F.G. 41
Voll, R.J. 213

Watanabe, H.K. 117

Yamada, H. 361
Yoshida, M. 257, 273
Yoshikawa, T. 117
Younathan, E.S. 213

Zeng, J. 223
Zhao, Q.-C. 361

Subject index

- N*-Acetylated chitosans as substrates, a convenient assay for chitinase that uses partially, 373
- N*-Acetylneuraminic acid, use as a temporary blocking group in a combined chemical-enzymic oligosaccharide synthesis, C7
- N*-Acetylneuraminic acids, deoxy, incorporation into ganglioside GM₃ analogs by synthesis, 273
- N*-Acetylneuraminic acids, deoxy, synthesis of methyl thioglycosides of, for use as glycosyl donors, 257
- Affinity ligands from *D*-myo-inositol 1,4,5-triphosphate, synthesis of, 63 Amadori intermediates. GC-MS/SPEMMA data bank identification of volatile aroma compounds, kinetics and thermal degradation of the fructose-methionine, 15
- Amino acid, *C*-glycosyl analogue of *O*-(β -D-xylopyranosyl)serine, synthesis of, 197
- 6-Amino-6-deoxy-D-gluconic acid, preparation of derivatives that are precursors for the synthesis of polyamides, 191
- 3-Amino-3,6-dideoxy-D-mannose (mycosamine), a precursor to the β -pyranosides of, 79
- Assay for chitinase that uses partially *N*-acetylated chitosans as substrates, 373
- Assay for oligo-(1 \rightarrow 4) \rightarrow (1 \rightarrow 4)-glucantransferase activity in the glycogen debranching enzyme system by using HPLC with a pulsed amperometric detector, 179
- Branched-chain sugars with push-pull functionality, syntheses of, 319
- Bromination of cellulose with *N*-bromosuccinimide-triphenylphosphine under homogeneous conditions in lithium bromide-organic solvent systems, 165
- Bromosuccinimide-triphenylphosphine under homogeneous conditions in lithium bromide-organic solvent systems, bromination of cellulose with *N*-, 165
- Carbohydrate-protein conjugates, synthesis of ω -(methoxycarbonyl)alkyl and 9-(methoxycarbonyl)-3,6-dioxanonyl glycosides for use in preparation of, 117
- Cellulose with *N*-bromosuccinimide-triphenylphosphine under homogeneous conditions in lithium bromide-organic solvent systems, bromination of, 165
- Cellulose with *N*-chlorosuccinimide-triphenylphosphine under homogeneous conditions in lithium chloride-*N,N*-dimethylacetamide, 151
- Cervus nippon* Temminck, structure of the complement-activating proteoglycan from the pilose antler of, 361
- Chitinase, a convenient assay that uses partially *N*-acetylated chitosans as substrates, 373
- Chlorination of cellulose with *N*-chlorosuccinimide-triphenylphosphine under homogeneous conditions in lithium chloride-*N,N*-dimethylacetamide, 151
- Chlorosuccinimide-triphenylphosphine under homogeneous conditions in lithium chloride-*N,N*-dimethylacetamide, chlorination of cellulose with *N*-, 151
- Complement-activating proteoglycan from the pilose antler of *Cervus nippon* Temminck, structure of, 361
- Complexation with C₁₂ cyclic compounds, enhanced production of cyclomalto-octaose through selective, 343
- Conformational analysis of the anomeric forms of kojibiose, nigerose, and maltose using MM3, 223
- Conformational behaviour of the cardiac glycoside digoxin as indicated by NMR spectroscopy and molecular dynamics calculations, 201
- Crystal packing of *N*-(*n*-octyl)-D-gulonamide containing tail-to-tail sheets compared to its gluconamide diastereomer showing head-to-tail arrangement, 31
- Cyclomaltoheptaose, regioselectivity of the insertion reactions of some aromatic diazo compound complexes with, 289
- Cyclomaltooctaose through selective complexation with C₁₂ cyclic compounds, enhanced production of, 343

- 2,3-Dideoxy-2,3-(*N*-tosylepimino)- α -D-allopyranosides, and synthesis of 3'-deoxy-3'-fluorokanamycin B and 3',4'-dideoxy-3'-fluorokanamycin B, study on fluorination of, 89
- Digoxin, conformational behaviour as indicated by NMR spectroscopy and molecular dynamics calculations, 201
- Enhanced production of cyclomaltooctaose through selective complexation with C₁₂ cyclic compounds, 343
- Esterase from rabbit serum, partially pivaloylated D-glucopyranose substrates for the, 107
- Fluorination of 2,3-dideoxy-2,3-(*N*-tosylepimino)- α -D-allopyranosides, and synthesis of 3'-deoxy-3'-fluorokanamycin B and 3',4'-dideoxy-3'-fluorokanamycin B, study on, 89
- Fluorokanamycin B, study on fluorination of 2,3-dideoxy-2,3-(*N*-tosylepimino)- α -D-allopyranosides, and synthesis of 3'-deoxy-3'-fluorokanamycin B and 3',4'-dideoxy-3'-, 89
- Fructose-methionine Amadori intermediates. GC-MS/SPECMA data bank identification of volatile aroma compounds, kinetics and thermal degradation of the, 15
- Furanose conformer, a locked ⁴T₃. Synthesis and X-ray crystal and solution structures of 2,5-anhydro-3,4-*O*-(1,2-ethanediyl)-D-mannitol, 213
- Ganglioside GM₃ analogs containing a deoxy-*N*-acetylneuraminic acid residue, synthesis of a series of, 273
- Glucantransferase activity in the glycogen debranching enzyme system, assay for oligo-(1 → 4) → (1 → 4)-, by using HPLC with a pulsed amperometric detector, 179
- Gluconamide diastereomer showing head-to-tail arrangement, the crystal packing of *N*-(*n*-octyl)-D-gulonamide containing tail-to-tail sheets compared to its, 31
- D-Gluconic acid, preparation of derivatives of 6-amino-6-deoxy-, as precursors for the synthesis of polyamides, 191
- D-Glucopyranoses, syntheses of partially pivaloylated, 107
- Glycogen debranching enzyme system, assay for oligo-(1 → 4) → (1 → 4)-glucantransferase activity by using HPLC with a pulsed amperometric detector, 179
- C-Glycosyl amino acid analogue of *O*-(β -D-xylopyranosyl)serine, synthesis of, 197
- Hyaluronic acid esters and salts, NMR studies of hydrogen-bond patterns and conformational behaviour for solutions in methyl sulfoxide, 1
- Hydrogen-bond patterns and conformational behaviour of salts and esters of hyaluronic acid in solution in methyl sulfoxide, NMR studies of, 1
- Hydroxyl → halogen exchange reaction in the presence of triphenylphosphine, *N*-bromosuccinide, and *N,N*-dimethylformamide, the mechanism of the, 327
- Inhibitors of neural cell division, synthesis of oligosaccharide, 185
- D-*myo*-Inositol 1,4,5-triphosphate affinity ligands, synthesis of, 63
- Insertion reactions of some aromatic diazo compound complexes with cyclomaltoheptaose, regioselectivity of the, 289
- Intramolecular hydrogen bonds in methyl β -cellobioside, a ¹H-NMR and MD study, 41
- Kinetics and thermal degradation of the fructose-methionine Amadori intermediates. GC-MS/SPECMA data bank identification of volatile aroma compounds, 15
- Kojibiose, nigerose, and maltose, conformational analysis of the anomeric forms of using MM3, 223
- Maltose, kojibiose, and nigerose, conformational analysis of the anomeric forms of using MM3, 223
- D-Mannitol, 2,5-anhydro-*O*-(1,2-ethanediyl)-, a locked ⁴T₃ furanose conformer: synthesis and X-ray crystal and solution structures of, 213
- α -D-Mannopyranosyl and α -D-mannopyranosyl-(1 → 2)- α -D-mannopyranosyl linked to L-serine and L-threonine, synthesis and conformational and NMR studies of, 299
- (Methoxycarbonyl)alkyl and 9-(methoxycarbonyl)-3,6-dioxanonyl glycosides for use in preparation of carbohydrate-protein conjugates, synthesis of ω -, 117
- Methyl β -cellobioside, a ¹H-NMR and MD study of intramolecular hydrogen bonds in, 41
- MM3, conformational analysis of the anomeric forms of kojibiose, nigerose, and maltose using, 223
- Mucin-type core unit, synthesis of neoglycolipids containing a, C11
- Mycosamine (3-amino-3,6-dideoxy-D-mannose), a precursor to the β -pyranosides of, 79
- Neoglycolipids containing a mucin-type core unit, synthesis, C11

- Neural cell division, synthesis of oligosaccharide inhibitors of, 185
- Nigerose, kojibiose, and maltose, conformational analysis of the anomeric forms of using MM3, 223
- NMR and MD study of intramolecular hydrogen bonds in methyl β -cellobioside, ^1H -, 41
- NMR spectroscopy and molecular dynamics calculations, conformational behaviour of the cardiac glycoside digoxin as indicated by, 201
- NMR studies of solutions of hyaluronic acid esters and salts in methyl sulfoxide, comparison of hydrogen-bond patterns and conformational behaviour, 1
- Oligosaccharide inhibitors of neural cell division, synthesis of, 185
- Pivaloylated D-glucopyranoses, syntheses of partially, 107
- Polyamides, preparation of derivatives of 6-amino-6-deoxy-D-gluconic acid that are precursors for the synthesis of, 191
- Precursor to the β -pyranosides of 3-amino-3,6-dideoxy-D-mannose (mycosamine), 79
- Proteoglycan from the pilose antler of *Cervus nippon* Temminck, structure of the complement-activating, 361
- Regioselectivity of the insertion of some aromatic diazo compound complexes with cyclomaltoheptaose, 289
- L-Serine and L-threonine, synthesis and conformational and NMR studies of α -D-mannopyranosyl and α -D-mannopyranosyl-(1 \rightarrow 2)- α -D-mannopyranosyl linked to, 299
- Sialyl dimeric Lewis^x heptasaccharide, combined chemical-enzymic synthesis, C7
- Sialyl X ceramide consisting of a pentasaccharide recognized by the selectin family, stereocontrolled synthesis of, C1
- Structures, X-ray crystal and solution, and synthesis of 2,5-anhydro-3,4-O-(1,2-ethanediyl)-D-mannitol, a locked 4T_3 furanose conformer, 213
- Sugars with push-pull functionality, syntheses of branched-chain, 319
- Sulfated alkyl glycosides, synthesis and properties, 245
- Syntheses of branched-chain sugars with push-pull functionality, 319
- Synthesis and conformational and NMR studies of α -D-mannopyranosyl and α -D-mannopyranosyl-(1 \rightarrow 2)- α -D-mannopyranosyl linked to L-serine and L-threonine, 299
- Synthesis and properties of sulfated alkyl glucosides, 245
- Synthesis of ω -(methoxycarbonyl)alkyl and 9-(methoxycarbonyl)-3,6-dioxanonyl glycosides for use in preparation of carbohydrate-protein conjugates, 117
- Synthesis of sialyl X ceramide consisting of a pentasaccharide recognized by the selectin family, stereocontrolled, C1
- Thioglycosides of deoxy-N-acetylneuraminic acids for use as glycosyl donors, synthesis of the methyl, 257
- Triphenylphosphine, N-bromosuccinimide, and N,N-dimethylformamide, the mechanism of the hydroxyl \rightarrow halogen exchange reaction in the presence of, 327
- Vilsmeier-type reagent, application in carbohydrate chemistry of a new, 327
- VIM-2 hexasaccharide determinant, combined chemical-enzymic synthesis, C7